SEQUENCE LISTING

(1) GENERAL INFORMATION:
    (i) APPLICANT: Fred J. Stevens
                        Marianne Schiffer
                        Priscilla Wilkins-Stevens
                        W. Carey Hanly
                        Sandra L. Tollaksen
    (ii) TITLE OF INVENTION: DEVICE FOR DETECTING MOLECULES, METHOD FOR
DETECTING MOLECULES
    (iii) NUMBER OF SEQUENCES: 5
    (iv) CORRESPONDENCE ADDRESS:
        (A) ADDRESSEE: CHERSKOV & FLAYNIK
        (B) STREET: 20 N. Wacker Drive
        (C) CITY: Chicago
        (D) STATE: Illinois
        (E) COUNTRY: United States
        (F) ZIP: 60606
    (v) COMPUTER READABLE FORM:
        (A) MEDIUM TYPE: compact disc
        (B) COMPUTER: PC
        (C) OPERATING SYSTEM: Microsoft Windows XP
        (D) SOFTWARE: Wordperfect
    (vi) CURRENT APPLICATION DATA:
        (A) APPLICATION NUMBER: 09/368,989
        (B) FILING DATE: 1999-AUG-05
    (viii)   ATTORNEY/AGENT INFORMATION:
        (A) NAME: Cherskov, Michael J.
        (B) REGISTRATION NUMBER: 33,664
        (C) REFERENCE/DOCKET NUMBER: 0003/00332
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        (A) TELEPHONE: (312) 621-1330
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(2) INFORMATION FOR SEQ ID NO: 1:
    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 111 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: Single
        (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Pro
1   5   10   15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Asn Leu Leu
            20   25   30

Asp Ala Ser Phe Asp Thr Asn Thr Leu Ala Trp Tyr Gln Gln Lys
            35   40   45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ser Arg
            50   55   60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
            65   70   75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
            80   85   90

Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly
            95   100   105

```
         Thr Lys Leu Glu Ile Lys
                     110


(2)  INFORMATION FOR SEQ ID NO: 2
     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 111 amino acids
          (B)  TYPE: amino acid
          (C)  STRANDEDNESS: single
          (D)  TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

         Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
         1               5                   10                  15

         Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
                         20                  25                  30

         Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
                         35                  40                  45

         Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
                         50                  55                  60

         Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
                         65                  70                  75

         Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
                         80                  85                  90

         Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly
                         95                  100                 105

         Thr Lys Leu Glu Ile Lys
                     110


(2)  INFORMATION FOR SEQ ID NO: 3
     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 111 amino acids
          (B)  TYPE: amino acid
          (C)  STRANDEDNESS: single
          (D)  TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

         Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
         1               5                   10                  15

         Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
                         20                  25                  30

         Tyr Ser Ser Asn Ser Thr Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
                         35                  40                  45

         Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
                         50                  55                  60

         Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
                         65                  70                  75

         Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
                         80                  85                  90

         Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly
```

```
Thr Lys Leu Glu Ile Lys
                110
```

(2) INFORMATION FOR SEQ ID NO: 4:
   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 111 amino acids
      (B) TYPE: amino acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

```
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1               5               10              15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
                20              25              30

Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Glu Lys
                35              40              45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
                50              55              60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
                65              70              75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
                80              85              90

Tyr Cys Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly
                95              100             105

Thr Lys Leu Glu Ile Lys
                110
```

(2) INFORMATION FOR SEQ ID NO: 5:
   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 111 amino acids
      (B) TYPE: amino acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

```
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1               5               10              15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
                20              25              30

Tyr Ser Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
                35              40              45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
                50              55              60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
                65              70              75

Asp Phe Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
                80              85              90
```

Tyr Cys Leu Gln Tyr Tyr Ser Thr Pro Tyr Ser Phe Gly Gln Gly
                95   100   105

Thr Lys Leu Glu Ile Lys
                110